

DOCKET NO.: 100933-1P US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Bostwick et al.**; U.S. National Stage of PCT/SE03/001978

International Filing Date: **December 17, 2003**

§ 371 Date: **June 16, 2005**

Group Art Unit: **Not yet assigned**

U.S. Application No.: **10/539,544**

Examiner: **Not yet assigned**

For: **INOSITOL PHOSPHATE DETECTION ASSAYS**

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Respectfully submitted,



Date: October 18, 2005

Robin S. Quartin, Ph.D.
Attorney for Applicants
Registration No. 45,028
(302) 885-9129

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Application Number	10/539,544
Filing Date	June 16, 2005
First Named Inventor	Bostwick
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	100933-1P US

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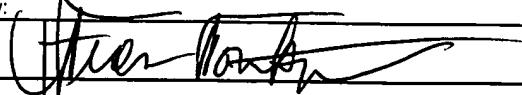
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Complete if Known

Application Number	10/539,544
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First Named Inventor	Bostwick
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	100933-1P US

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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<i>Application Number</i>	10/539,544
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<i>Art Unit</i>	Not yet assigned
<i>Examiner Name</i>	Not yet assigned
<i>Attorney Docket Number</i>	100933-1P US

NON PATENT LITERATURE DOCUMENTS

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		LENNART ANDERSSON ET AL., "Isolation of Phosphoproteins by Immobilized Metal (Fe3.1) Affinity Chromatography," Analytical Biochemistry, Vol 154, 1986, p. 250-254	
		ALBERT J. BAUKAL ET AL., "Binding Sites for Inositol Trisphosphate in the Bovine Adrenal Cortex," Biochem. Biophys. Res. Commun., Vol. 133 (No. 2), 1985, p. 532-538	
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		GRIGORY CHAGA ET AL., "Purification and Determination of the Binding Site of Lactate Dehydrogenase from Chicken Breast Muscle on Immobilized Ferric Ions," Journal of Chromatography, Vol 627, 1992, p. 163-172	
		MURTY CHENGALVALA ET AL., "A Multi-well Filtration Assay for Quantitation of Inositol Phosphates in Biological Samples," J. Biochem. Biophys. Methods, Vol 38, 1999, p. 163-170	
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		STEPHEN K. FISHER ET AL., "Inositol Lipids and Signal Transduction in the Nervous System: An Update," J. Neurochem, Vol 58, 1992, p. 18-38	
		VLADKA GABERC-POREKAR ET AL., "Perspectives of Immobilized-metal Affinity Chromatography," J. Biochem. Biophys. Methods, Vol 49, 2001, p. 335-360	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				<i>Application Number</i>	10/539,544
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				<i>Art Unit</i>	Not yet assigned
				<i>Examiner Name</i>	Not yet assigned
Sheet	2	of	3	<i>Attorney Docket Number</i>	100933-1P US

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
		GAITAN GUILLEMETTE ET AL., "Inositol 1,4,5-trisphosphate Binds to a Specific Receptor and Releases Microsomal Calcium in the Anterior Pituitary Gland," Proc. Natl. Acad. Sci. U.S.A., Vol 84, 1987, p. 8195-8199				
		SIGRID HANEM ET AL., "Inositol-1,4,5-trisphosphate Mass Content in Isolated Perfused Rat Heart During Alpha-1-adrenoceptor StimulationMolecular and Cellular Biochemistry," Molecular and Cellular Biochemistry, Vol 163/164, 1996, p. 167-172				
		KARSTEN HAUPT ET AL., "Immobilized Metal Ion Affinity Capillary Electrophoresis of Proteins - A Model for Affinity Capillary Electrophoresis Using Sluble Polymer-Supported Ligands", Analytical Biochemistry, Vol 234, 1996, p. 149-154				
		LEONARD D. HOLMES ET AL., "Immobilized Iron(III) Metal Affinity Chromatography for the Separation of Phosphorylated Macromolecules: Ligands and Applications", J. Liq. Chrom. & Rel. Technol., Vol 20, No. 1, 1997, page 123-142				
		ARLENE R. HUGHES ET AL., "Source of 3H-Labeled Inositol Bis- and Monophosphates in Agonist-activated Rat Parotid Acinar Cells", Journal of Biological Chemistry, Vol 264, No 16, 1989, p. 9400-9407				
		WEI JIANG ET AL., "Protein Interaction with Immobilized Metal Ion Affinity Ligands under High Ionic Strength Conditions", Analytical Biochemistry, Vol 242, 1996, p. 45-54				
		SHIHUA LI ET AL., "Iron(III)-Immobilized Metal Ion Affinity Chromatography and Mass Spectrometry for the Purification and Characterization of Synthetic Phosphopeptides", Analytical Biochemistry, Vol 270, 1999, p. 9-14				
		JAY JIE LIU ET AL., "An Immobilized Metal Ion Affinity Adsorption and Scintillation Proximity Assay for Receptor-stimulated Phosphoinositide Hydrolysis", Analytical Biochemistry, Vol 318, 2003, p. 91-99				
		JIE LIU ET AL., "Molecular Mechanisms Involved in Muscarinic Acetylcholine Receptor-mediated G Protein Activation Studied by Insertion Mutagenesis", Journal of Biological Chemistry, Vol 271, No 11, 1996, p. 6172-6178				
		GRAZYNIA MUSZYNSKA ET AL., "Selective Adsorption of Phosphoproteins on Gel-Immobilized Ferric Chelate", Biochemistry, Vol 25, 1986, p. 6850-6853				

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		JERKER PORATH ET AL., "Immobilized Metal Ion Affinity Adsorption and Immobilized Metal Ion Affinity Chromatography of Biomaterials. Serum Protein Affinities for Gel-Immobilized Iron and Nickel Ions", Biochemistry, Vol 22, 1983, p. 1621-1630	
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		EUGENE SULKOWSKI, "Purification of Proteins by IMAC", Trends in Biotechnology, Vol 3, 1985, p. 1-7	
		EUGENE SULKOWSKI, "The Saga of IMAC and MIT", BioEssays, Vol 10, No 5, 1989, p. 170-175	
		ANN B. THEIBERT ET AL., "Demonstration of Inositol 1,3,4,5-Tetrakisphosphate Receptor Binding", Biochemical and Biophysical Research Communications, Vol 148, No 3, 1987, p. 1283-1289	
		HAVARD VIKO ET AL., "Effect of Concomitant B-Adrenoceptor Stimulation on α1-Adrenoceptor-Mediated Increase of Inositol-1,4,5-trisphosphate Mass in Adult Rat Cardiomyocytes", Pharmacology & Toxicology, Vol 83, 1998, p. 23-28	
		TAI-TUNG YIP ET AL., "Immobilized metal Ion Affinity Chromatography", Methods in Molecular Biology, Vol 59, 1996, p. 197-210	
		International Search Report for International Application No. PCT/SE2003/001978	

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